

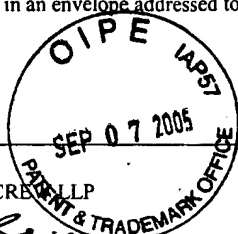
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On 9-6-2005

TOWNSEND and TOWNSEND and CRELL LLP

By Jennifer O'Brien
Jennifer O'Brien



PATENT
Attorney Docket No.: 021751-002400US

on
✓
2123 \$

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

DAVID E. BARAFF et al.

Application No.: 09/750,100

Filed: December 29, 2000

For: THE INERTIAL FIELD
GENERATOR: A METHOD FOR
CONTROLLABLY COUPLING
KINEMATIC CHARACTER MOTIONS
TO DYNAMICALLY SIMULATED
ELEMENTS

Examiner: THOMAS H. STEVENS

Art Unit: 2123

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

09/09/2005 AKELECH1 00000007 201430 09750100

01 FC:1806 180.00 DA

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the non-U.S. Patent references are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

S. B. Kotwal

Sujit B. Kotwal
Reg. No. 43,336

TOWNSEND and TOWNSEND and CREW LLP
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Fax: 650-326-2422
SBK:bjl



Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180)

Complete if Known

Application Number	09/750,100
Filing Date	December 29, 2000
First Named Inventor	Baraff, David E.
Examiner Name	THOMAS H. STEVENS
Art Unit	2123
Attorney Docket No.	021751-002400US

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Small Entity	Fee (\$)	Small Entity	Fee (\$)	Small Entity	Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Small Entity	
	Fee (\$)	Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims Extra Claims Fee (\$) Fee Paid (\$) Multiple Dependent Claims

_____ -20 or HP = _____ x _____ = _____ Fee (\$) Fee Paid (\$)

HP = highest number of total claims paid for, if greater than 20

Indep. Claims Extra Claims Fee (\$) Fee Paid (\$)

_____ -3 or HP = _____ x _____ = _____

HP = highest number of independent claims paid for, if greater than 3

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)

_____ - 100 = _____ / 50 = _____ (round up to a whole number) x _____ = _____

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

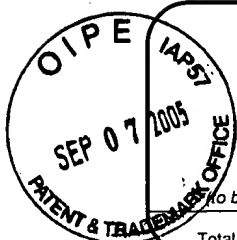
Other: Submission of Information Disclosure Stmt

Fees Paid (\$)

180

SUBMITTED BY

Signature	S. B. Kotwal	Registration No. (Attorney/Agent)	43,336	Telephone	650-326-2400
Name (Print/Type)	Sujit B. Kotwal			Date	09/06/2005



TRANSMITTAL FORM

(Do not be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	09/750,100
Filing Date	December 29, 2000
First Named Inventor	Baraff, David E.
Art Unit	2123
Examiner Name	THOMAS H. STEVENS
Attorney Docket Number	021751-002400US

ENCLOSURES (Check all that apply)

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form
<input type="checkbox"/> Fee Attached
<input type="checkbox"/> Amendment/Reply
<input type="checkbox"/> After Final
<input type="checkbox"/> Affidavits/declaration(s)
<input type="checkbox"/> Extension of Time Request
<input type="checkbox"/> Express Abandonment Request
<input checked="" type="checkbox"/> Information Disclosure Statement

<input type="checkbox"/> Certified Copy of Priority Document(s)
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)
<input type="checkbox"/> Licensing-related Papers
<input type="checkbox"/> Petition
<input type="checkbox"/> Petition to Convert to a Provisional Application
<input type="checkbox"/> Power of Attorney, Revocation
<input type="checkbox"/> Change of Correspondence Address
<input type="checkbox"/> Terminal Disclaimer
<input type="checkbox"/> Request for Refund
<input type="checkbox"/> CD, Number of CD(s) _____
<input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
Fee Transmittal Form
PTO/SB/08A and /08B Form
22 Reference Copies
Return Postcard |
|--|--|---|

Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP
Signature	<i>S. B. Kotwal</i>
Printed name	Sujit B. Kotwal
Date	September 6, 2005

Reg. No.	43,336
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CERTIFICATE OF TRANSMISSION/MAILING

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Typed or printed name Jennifer O'Brien

Date

9-6-2005



Substitute for form 1449A&B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	09/750,100
Filing Date	December 29, 2000
First Named Inventor	Baraff, David E.
Art Unit	2123
Examiner Name	THOMAS H. STEVENS
Attorney Docket Number	021751-002400US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	AA	US-5,912,675	06-15-1999	Laperriere	
	AB	US-6,326,963	12-04-2001	Meehan	
	AC	US-6,559,849	05-06-2003	Anderson et al.	
	AD	US-6,909,431	06-21-2005	Anderson et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
								<input type="checkbox"/>
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								<input type="checkbox"/>
								<input type="checkbox"/>

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AE	ASCHER, U., AND BOXERMAN, E. 2002. On the modied conjugate gradient method in cloth simulation. (submitted to) The Visual Computer 19:526-531.	
	AF	BARAFF, D., AND WITKIN, A. 1998. Large steps in cloth simulation. Computer Graphics (Proc. SIGGRAPH), 1-12.	
	AG	BERNEY, J., AND REDD, J. 2000. Stuart Little. SIGGRAPH Course Notes, ACM SIGGRAPH, ch. Costumes.	
	AH	BREEN, D., HOUSE, D., AND WOZNY, M. 1994. Predicting the drape of woven cloth using interacting particles. Computer Graphics (Proc. SIGGRAPH), 365-372.	
	AI	BRIDSON, R., FEDKIW, R., AND ANDERSON, J. 2002. Robust treatment of collisions, contact, and friction for cloth animation. Computer Graphics (Proc. SIGGRAPH), 594-603.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.



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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **2** of **3****Complete if Known**

Application Number	09/750,100
Filing Date	December 29, 2000
First Named Inventor	Baraff, David E.
Art Unit	2123
Examiner Name	THOMAS H. STEVENS
Attorney Docket Number	021751-002400US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AJ	CARIGNAN, M., YANG, Y., MAGENENAT-THALMANN, N., AND THALMANN, D. 1992. Dressing animated synthetic actors with complex deformable clothes. Computer Graphics (Proc. SIGGRAPH), 99-104.	
	AK	CHOI, K., AND KO, H. 2002. Stable but responsive cloth. Computer Graphics (Proc. SIGGRAPH), 604-611.	
	AL	CORDIER, F., VOLINO, P., AND THALMANN, N. 2002. Integrating deformations between bodies and clothes. The Journal of Visualization and Computer Animation 12:45-53.	
	AM	DEROSE, T., KASS, M., AND TRUON, T. 1998. Subdivision surfaces in computer animation. Computer Graphics (Proc. SIGGRAPH), 85-94.	
	AN	EBERHARDT, B., WEBER, A., AND STRASSER, W. 1996. A fast, flexible, particlesystem model for cloth draping. IEEE Computer Graphics and Applications 16:52-59.	
	AO	GOTTSCHALK, S., LIN, M., AND MANOCHA, D. 1996. OBBTree: A hierarchical structure for rapid interference detection. Computer Graphics (Proc. SIGGRAPH), 171-180.	
	AP	KRISHNAN, S., AND MANOCHA, D. 1997. An efficient surface intersection algorithm based on lowerDimensional formulation. ACM Transactions on Graphics 16, 1 (Jan.), 76-106. ISSN 0730-0301.	
	AQ	LANDER, Skin Them Bones: Game Programming for the Web Generation, May 1998, Game Developer (www.gdmag.com), pages 11-16	
	AR	LANDER, Slashing through Real-Time Character Animation, April 1998, Game Developer (www.gdmag.com), pages 13-16.	
	AS	MEYER, M., DEBUNNE, G., DESBRUN, M., AND BARR, A. 2001. Interactive animation of clothlike objects in virtual reality. The Journal of Visualization and Computer Animation 12:1-12.	
	AT	PATRIKALAKIS, N. 1993. Surface-to-surface intersections. IEEE Computer Graphics and Applications 13, 1, 89-95.	
	AU	PROVOT, X. 1995. Deformation constraints in a massspring model to describe rigid cloth behavior. In Graphics Interface, Graphics Interface, 147-155.	
	AV	STOEGER et al., How to Create Long Hair with Maya Paint Effects and Maya Cloth, Alias/Wavefront, Corporate Overview, 4 pages.	
	AW	TERZOPOULOS, D., AND FLEISCHER, K. 1988. Deformable models. Visual Computer 4, 306-331.	

Examiner Signature		Date Considered	
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 3

Complete if Known

Application Number	09/750,100
Filing Date	December 29, 2000
First Named Inventor	Baraff, David E.
Art Unit	2123
Examiner Name	THOMAS H. STEVENS
Attorney Docket Number	021751-002400US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AX	TERZOPOULOS, D., PLATT, J., BARR, A., AND FLEISCHER, K. 1987. Elastically deformable models. Computer Graphics (Proc. SIGGRAPH) 11:205-214.	
	AY	VOLINO, P., COURCHESNE, M., AND MAGNENAT THALMANN, N. 1995. Versatile and efficient techniques for simulating cloth and other deformable objects. Computer Graphics (Proc. SIGGRAPH), 137-144.	
	AZ	WATT et al., "Advanced Animation and Rendering Techniques" ACM Press, 1992, pages 418-420	

Examiner Signature		Date Considered	
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